

**ABSTRACT OF THE DISCLOSURE**

Apparatus for the absorption of torsional vibrations of an internal combustion engine includes an input shaft between the internal combustion engine and the transmission, and a drive shaft of the transmission, which is operatively associated with said input shaft. Each of the input and drive shafts includes a torsion bar that has a lower torsional spring constant than the rest of the shaft as a whole. The apparatus further includes a rotating mass device on each of the input and drive shafts, and the apparatus is disposed between the internal combustion engine and the transmission.